



SEQUENCE LISTING

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NOV 16 2000

TECH CENTER 1600/22

<110> Iwen, Peter C.
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Board of Regents of the University of Nebraska

<120> Materials and Methods for Molecular
Detection of Clinically Relevant Pathogenic Fungal Species

<130> UNMC 63149

<140> 09/580,797

<141> 2000-05-30

<160> 39

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5 2003

100/2900

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<213> *Pseudallescheria boydii*

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 <211> 563
 <212> DNA
 <213> Fusarium solani

Sub
B1

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 <213> Fusarium oxysporum

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<210> 12
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 <212> DNA
 <213> Fusarium monilliformes

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 <211> 631
 <212> DNA
 <213> Malassezia furfur

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 <212> DNA
 <213> Cylindrocarpon lichenicola

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<210> 16
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 <213> *Gymnasella hyalinaspora*

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<210> 17
 <211> 692
 <212> DNA
 <213> *Blastomyces dermatitides*

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<210> 18
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 <213> *Histoplasma duboisii*

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<210> 20
 <211> 577
 <212> DNA
 <213> Cryptococcus neoformans

<400> 20

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ttagtgggaa	ggtgattacc	tgtcagcccc	gcgtaataag	tttcgctggg	cctatggggg	540
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<210> 21
 <211> 498
 <212> DNA
 <213> Issatchenkia orientalis

<400> 21

ggaagtaaaa	gtcgtaacaa	ggtttccgta	ggatgaacctg	cgaaggatc	attactgtga	60
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atatagtcca	caagagaaat	ctacgaaaaa	caaacaaaac	tttcaacaac	ggatctcttg	180
gttctcgcat	cgatgaagag	cgcagcgaaa	tgcgatacct	agtgtgaatt	gcagccatcg	240
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tttttttcag	ggacgcttgg	cggcccgagag	cgagtgttgc	gagacaacaa	aaagctcgac	480
ctcagatcag	gtaggaat					498

<210> 22
 <211> 646
 <212> DNA
 <213> Candida albicans

Sub
B1

<400> 22						
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gcaagggcca	gccatacgga	cggcgctact	cgcgtacaac	gtctctggcg	tccgtagggtg	120
aacctgcgga	aggatcatta	ctgatttgc	taattgcacc	acatgtgttt	ttctttgaaa	180
caaacttgct	ttggcggtagg	gccagcctg	ccgccagagg	tctaaaactta	caaccaattt	240
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tcgtgaatca	tcgaatcttt	gaacgcacat	tgcgccctct	ggtattccgg	agggcatgcc	420
tgtttgagcg	tcgtttctcc	ctcaaaccgc	tgggtttggg	gtcgagcaat	acgacttggg	480
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caggtaggac	taccgctga	acttaagcat	atcaataagc	ggagga		646

<210> 23
 <211> 323
 <212> DNA
 <213> Candida lusitanae

<400> 23						
aaaaatacat	tacacattgt	ttttgcgaac	aaaaaaataa	atTTTTTTat	tcgaatttct	60
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attgcgatac	gtagtatgac	ttgcagacgt	gaatcatcga	atctttgaac	gcacattgcg	180
cctcgaggca	ttcctcgagg	catgcttgtt	tgagcgtcgc	atccccctta	acccccggtt	240
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<210> 24
 <211> 559
 <212> DNA
 <213> Candida glabrata

<400> 24						
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<210> 25
<211> 520
<212> DNA
<213> *Penicillium* spp.

<400> 25
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ccgcccgggg gcttacgccc ccggggccgc gccgcgcgaa gacaccctcg aactctgtct 120
gaagattgta gtctgagtgaa aaatataaat tatttaaaac tttcaacaac ggatctcttg 180
gttccggcat cgatgaagaa cgcagcgaaa tgcgatacgt aatgtgaatt gcaaattcag 240
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cgggggacgg ccccccgaaaa ggcagcggcg gcaccgcctt cccggtcctc ccagccttat 420
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tttttatcca agtttgacct ccggatcang ttagggatac 520

<210> 26
<211> 654
<212> DNA
<213> *Malbranchia* spp.

<400> 26
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aacctgcgga aggatcatta aagtgttaag ccggcgctc cgtgtgccgg tgaaactcca 180
cccttgacta ctataccaca tgttgctttg gcggggccgc ctccggggccg ccggggggccc 240
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acgcagcgaa atgcgataag taatgtgaat tgcagaattc cgtgaatcat cgaatctttg 420
aacgcacatt gcgccccctg gtattccggg gggcatgcct gtccgagcgt cattgcaacc 480
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cgctggtcag aaccaaattc tttaccggtt gacctcggat caggtaggga tacc 654

<210> 27
<211> 719
<212> DNA
<213> *Arthrographus* spp.

<400> 27
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tggttgtagc tggcctctcg gagcattgtg cacgcccgc atttttatct atccacctgt 180
gcaccgactg taggtctgga tgactctcgt gctctctgag tgcggatgcg aggattgccc 240
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ttgaaattgc atttagcgag ttcgtacttg agctccgtct atggtngtga taaattatct 660
acgccggttg gacngtttta aaactccctt ctaaccgtcc cgcaangana atancctttt 719

<210> 28
 <211> 672
 <212> DNA
 <213> *Cylindrocarpon destructans*

<400> 28
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 aacctgcgga aggatcatta cagtgcgcgc gggacgcgc ccctaaaccg gggcgccgag 180
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 gcggtctcgc tgtagcttcc tctgcgtagt agcacacctc gcaatggaaa acagcgtggc 600
 cagccggtta aacccccac ttctgaaagg ttctattctt cttaggttga cctcggatca 660
 ggtagggata cc 672

<210> 29
 <211> 727
 <212> DNA
 <213> *Sporothrix schenckii*

<400> 29
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 ggtctccgtt ggtgaaccag cggagggatc attacagagt ttccacaact cccaaccctt 180
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 cgcgcagac gcgcagctct ttttacaagg ttgacctcgc cgctgacctc ggatcagtag 720
 ggaatac 727

<210> 30
 <211> 700
 <212> DNA
 <213> *Penicillium marneffeii*

<400> 30
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 aacctgcgga aggatcatta ccgagtggg gccctctggg tccaacctcc caccctgtc 180
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caggtaggga taccgctgc ctcggatcag gtaggaatac

700

<210> 31
<211> 714
<212> DNA
<213> *Coccidioides immitis*

<400> 31
ggaagtaaaa gtcgtaacaa ggtttctgta ggtgaacctg cagaaggatc attagtgaaa 60
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cgtccggctg cgcacctccc ccgcgggggt tcgcgcggtc cgtacctccc acccggtgtt 180
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acttcatcgc tcaaagaccc gatcggggcc gatctctttt ttttattata tccggtttga 660
cctcgatca ggtaggagta cccgctgaac ttacctgga tcaggtagga atac 714

<210> 32
<211> 497
<212> DNA
<213> *Candida tropicalis*

<400> 32
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tgcttaantg ccccnatgn gttttttatt naacaaattt ntttgnggc gggancaatc 120
cnaccnccan aggttanaac taaacnaac ttttnttta cagtcaact tnatttatta 180
ttacnanagt caaaactttc acaacggat ntnttgntn tngcatcnaat gaanaacnca 240
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ccmtgcnc ctttggtatt ccaaanggca ngcctggttn ancgtcatt ntcccncaa 360
ccccgggnt tgggtgttnaa cnaaccnaa ggttgtttg aaaaaattta acgtggaaac 420
ttattttaaa cgacttaggt ttatccnaaa acgcttattt tgctagggcc accacaattt 480
atttcaaact tgacca 497

<210> 33
<211> 496
<212> DNA
<213> *Candida parapsilosis*

<400> 33
ggaagtaaaa agtcggtaac aaggtttccg taggtgaacc tgcggaagga tcattacaga 60
atgaaaagtg cttaactgca ttttttctta cacatgtgtt tttctttttt tgaaaacttt 120
gctttgtag gccttctata tggggcctgc cagagattaa actcaaccaa attttattta 180
atgtcanccg attatttaat agtcaaaact ttcaacaacg gatctcttgg ttctcgcatc 240
gatgaagaac gcagcgaaat gcgataagta atatgaattg cagatattcg tgaatcatcg 300
aatctttgaa cgcncattgc gccctttggt attccaaagg gcagcctgt ttgagcgtca 360
ttctccnc aaacctcgg gtttggtgtt gagcgatacg ctgggtttgc ttgaaagaaa 420
ggcggagtat aaactaatgg ataggttttt tccactcatt ggtacaaact ccaaaacttc 480
ttccaaattc gacca 496

<210> 34
<211> 595
<212> DNA
<213> Aspergillus flavus

<400> 34
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gggctctcag cccccgggcc gcgcccgcgc gagacaccac gaactctgtc tgatctagt 180
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caccgcgtct gtaggcccgc ccggcgcttg ccgaacgcaa atcaatcttt ttccaggttg 540
acctcggatc aggtagggat acccgctgaa ctttaagcata tcaataagcg gagga 595

<210> 35
<211> 597
<212> DNA
<213> Aspergillus fumigatus

<400> 35
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caccgctgtc tatcgtacct tggtgcttcg gcggggccgc cgtttcgacg gccgcggggg 120
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<210> 36
<211> 565
<212> DNA
<213> Aspergillus nidulans

<400> 36
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cggggaccac tgaacttcat gcctgagagt gatgcagtct gagcctgaat acaaatcagt 180
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cttaagcata tcaataagcg gagga 565

<210> 37
<211> 565
<212> DNA
<213> *Aspergillus niger*

<400> 37

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<210> 38
<211> 608
<212> DNA
<213> *Aspergillus terreus*

<400> 38

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ggcgactcg cccccgggc cgtgcccgc ggagaccca acatgaacc tggtctgaaa 180
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ttcgtcttc gctccgtag cccggccgc gccgcgcag gcatttattt gcaacttggt 540
ttttccagg ttgacctcg atcaggtag gataccgcgt gaacttaagc atatcaataa 600
gcggagga 608

<210> 39
<211> 569
<212> DNA
<213> *Aspergillus ustus*

<400> 39

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ccgcccggaga ccacaccgaa cctcctgtct ttagtggtgt ctgagcttga tagcaaacct 180
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